

29¢

NOTE BOOK



10943 - 11165

#585

75 SHEETS

**NO. 2017
NO. 2018**



Shenandoah Co. Va.

May 19 - 68185.9

1200 feet elevation - 350 m.

Shale slopes in wooded
area - mixed pine-deciduous
forest - overlooking Shenandoah River,
5.5 km. N. of Woodstock

Middle of Woodstock

68189.4

10943 - *Senecio abrotanifolius*
rays mostly 8

10944 - *Peristemon*
fls rather pale lavender

10945 - "hybrid *Antennaria*"

10946 - *Antennaria neglecta*

10947 - " *plantaginifolia*

V. 595

20 May, 1973. Page Co., Va. elev. 400m
near Katherine's Furnace, at SE base
of Massanutten Mt. at base of SE side of
Massanutten Mt., ca 8 km. airline N of
Shepherdstown. Mixed pine-hardwood
forest.

10948 - Plusteman - Fls.
lavender: on both shale & lime.

10949 - *Knizia* var.
shale

10950 *Senecio antenn*
shale, lapping into lime

10951 - *Artemisia*, to 3 or even 4m.
fls. white, 850m.

E. melanocarpa mixed woods,
red. Pine. Limestone

21 May 1973 - elev 2500
850 m. 68374.6 -

10952 *Polypodium parvifolium* -
fl. rich pink-purple
hemlock-hardwood forest
east slope, W. Va.

Pocahontas Co. - between
Durbin + Cass. - between
Back Allegheny Mt. + Greenbrier River
10953 - - same - wet places -

Anemone lanifolia -
sep. 5, white

10954 21 May 1973 Elevation 2450
68417.2

Moist low ground along
small stream in hemlock
hardwood forest on shale
substrate. W. Va. Pocahontas Co
Elev. 2400 ft - 700 m.
Phlox rotundifolia fls. pink
purple

4
ca 8 miles SW of Huntersville
419.0 at Park Campground

22 May, 1973 - Bath Co., Va.
shalebarrens with pine &
mixed hardwood just east
of Milboro Springs.

1600 feet \approx 500 meters

10955 - *Hieracium trailii*

536.5

10956 - *Senecio antenariifolius*
var 8.

10957 - *Praba ramosissima*
fls. white

10958 Elevation 1600

mileage 68538.3

1 1/2 km. ~~sw of~~ of Milboro
spgs. elev. 500 m.

Clematis viticantis Steele

Fls ~~po~~ blue toward the
base, achroous distally,
± mudding.

23 May, 1972.

300 m. shaly basen
quite mild pink -
handmaad

10959 - *Senecio* int.

688.0 speds. Shenandoah
County

Junction
Highway 55- 93.1

(Shally S.W. of Elizabeth Furnace
- 98.3 at Strasburg

anthocyanin diverges from

flav. synth leads by various
steps to chalcones -
thence branch in 3 directions
only. Last one or
possibly 2 steps in
the production of
anthocyanin appear to be
missing.

if it is flavonols
that occur with betalains,
then only one step is missing
~~from~~ for anthocyanins.

10943 - 19 May, 1973

Shenandoah County, Va.

Shale barren overlooking North
Fork of Shenandoah River, 5.5 km
southeast of Woodstock. Mixed
pine-deciduous forest. Elev.
350 m. Heads yellow. Rays
mostly 8.

Senecio obovatus Muhl. ✓

Senecio obovatus (2) ✓

10944 - 19 May, 1973.
Same place as 10943, Flowers
rather pale lavender

Penstemon canescens (Britt.) Britt.

Penstemon (2) ✓

10945 - 19 May, 1973. Same
place as 10944. A very few
plants growing with many
plants of #10946, *A. neglecta*
var. *argillicola*
and 10947, *A. plantaginifolia*
var. *plantaginifolia*.
~~and possibly intermediate~~
~~between them~~

Antennaria: possible hybrid of
A. plantaginifolia var. *plantaginifolia*
and *A. neglecta* var. *argillicola*.

Antennaria ①

10946 - 19 May, 1973.

Same place as 10943.

Growing with # 10947,

A. plantaginifolia, and
10945, a possible intermediate.

Antennaria neglecta Greene
var. *argillicola* (Stebbins) Cronq.

Antennaria neglecta. (3)

10947 - 19 May, 1973.

Same place as 10943.

Growing with # 10946,
A. neglecta var. *argillicola*,
, and 10945,
a possible intermediate.

Antennaria plantaginifolia (L.)

Richards

var. *plantaginifolia*

Antennaria plantaginifolia (3)

1048 - 20 May, 1973.

Page Co., Va. On rich shale
at base of southeast flank of
Massanutten Mts., near
Katherine's Furnace, ca
8 km. airline north of
Shenandoah. Mixed pine-
hardwood forest. Elev. 400m.
Flowers lavender.

Penstemon canescens (Britt.) Britt.

Penstemon (2)

10949-20 May, 1973. Page Co.,
Va. Shale horizon at base of
southeast side of Massanutten
Mts., near Katherine's Furnace,
ca 8 km. airline north of
Shenandoah. Mixed pine-hardwood
forest. Elev. 400 m. Flowers
orange yellow.

Krigia virginica (L.) Willd.

Krigia virginica (1)

10950 - 20 May, 1973 Page Co.,
Va. Shale horizon, and dipping
over onto limestone - - - I
as in 10949.

Heads yellow. Rays mostly 8.

Senecio antennariifolius Britt.

Senecio antennariifolius (3)

10951- 20 May, 1973. Page Co.,
Va. Near crest of Massanutten
Mt., ca 7 km airline south
of New Market. On limestone
substrate in mixed pine-hard-
wood woods. Elev. ca. 850 m.
Shrub up to 3 or even 4 m. tall.
Flowers white

Aronia melanocarpa (Michx.)
Ell.

Aronia melanocarpa (2)

10952 - 21 May, 1973
Pocahontas Co., West Va.
Hemlock-hardwood forest on
east slope of Little Back
Sloshery Mt. and Greenbrier
River, between Durbin and Cass.
Elev. ca. 850 m. Flowers
rich pink-purple.

Polygala paucifolia Willd.

Polygala paucifolia ①

10953 - 21 May, 1973.

Pocahontas Co., West Va.

Wet places near rivulets
in hemlock-hardwood forest
... etc. as in 10952. Sepals 5,
white.

Anemone lancifolia Pursh

Anemone lancifolia (2)

10954 - 21 May, 1973

Pocahontas Co., West Va.

Moist low ground along
small stream in
hemlock-hardwood forest on
shale substrate, ca 13 km.
southwest of Huntersville.
Elev. ca 700 m. Flowers
pink-purple.

Phlox stolonifera Sims

Phlox stolonifera (2)

10955 22 May, 1973.

Bath Co., Virginia

Under mixed pine hardwood
woods on shade. Common. 1 km.

east of Millboro Springs.

Elev. ca. 500 m.

Heads yellow.

Hieracium traillii Greene

Hieracium traillii (4) ✓

10956 - 22 May, 1973.

Bath Co., Va. Same place
as 10955.

Head only low. Rays mostly
ca 8, sometimes 13.

Senecio antennariifolius Britton

+ *Senecio antennariifolius*. (2)

10957. 22 May, 1973.
Bath Co., Va. Lampasas 10:15.
Fl. lavender white

Draba ramosissima Desv.

Draba ramosissima (3) ✓

10958- 22 May, 1973;

Butte Co., Cal. In mixed
pine-hardwood woods on
shale barren $1\frac{1}{2}$ km. south of
Millers Springs, Cal. ca.
500m. Flowers narrow, low
spreading, blue toward the
base, ochroleucous distally.

Clematis viticaulis Steck

Clematis (3)

10959. 23 May, 1973

Shenandoah Co., Va.

Shale barren with mixed pine
and hardwood, ca 8 km. across
south of Starbuck, slightly
southwest of Elizabeth

Furnace. ~~40~~ Elevation ca. 300
m. Heads median. Rays
mostly ca. 8.

Senecio antennariifolius

Britton

Senecio antennariifolius (3)

10960 - 8 June, 1973.

Clinton Co., N.Y.

Thin soil on flat-lying
limestone outcrops in
mixed deciduous-coniferous
woods area, ca 6 km
northwest of Sciota. Elev.
100m. Sparingly branched
shrubs 2-5 dm tall. Flowers
white. Plants reaching 2 m in
height in wetter, more favored
~~locations~~ sites nearby.

Aronia melanocarpa (Michx.)
Ell.

Aronia melanocarpa (2)

10961- 8 June, 1973.

~~Clinton~~ Clinton Co., N.Y.

Edges of woods in mixed
deciduous-coniferous forest
area, on limestone substrate,
ca 6 km northwest of
Sciota. Elev. 100 m.

Growing with #10963,
A. neglecta var. *attenuata*
(Ferr.) Cronq., and #10962,
the less common apparent
intermediate.

Antennaria neglecta Gronq.
var. *neglecta*

Antennaria neglecta (4)

10962. 8 Jan. 1973.

Same place as 10961.

Growing with 10961, *A. neglecta* Greene var. *neglecta*, and 10963, *A. neglecta* var. *attenuata* (Fern.) Cronq., and combining their characters in different ways, but less common.

Antennaria neglecta Greene
intermediate between
var. *neglecta* and var.
attenuata (Fern.) Cronq.

A. neglecta subsp. *intermedia* (Cronq.)

10963. 8 June 1973. Same place
as 10961. Growing with # 10961,
A. neglecta Greene var. *neglecta*,
and 10962; the less common
apparent intermediate.

Antennaria neglecta L.
var. *attenuata* (Fernald) Cronq.

Antennaria neglecta var. *attenuata* (4)

11 June, 1973- Washington Co.,
Me. #10964

In mixed spruce-fir birch
meads along the east shore of
Whiting Bay, Crow's Neck,
Town of Prescott.
Shrub ca 2 m tall.

Amelanchier barttramiana
(Tausch) Roemer

Amelanchier barttramiana (3)

10965 - 10 June, 1973.
Washington Co., Me.

In mixed spruce-fir-
birch woods along the
east shore of Whiting Bay,
Craw's Neck, Town of
Trescott.

Plants without creeping
rhizomes, scarcely tufted,
producing only 1-3 culms
together.

Poa saltuensis Fern. + Wieg.

Poa (3)

20966 - 9 May, 1974.
Virginia, Page Co. Mixed hardwood
forest in canyon above
Catherine Furnace, east
side of Massanutten Mts.

Tapals 5, white or pale pink,

11,

Anemone lancifolia Pursh

✓

Anemone lancifolia (3)

~~10977~~ 10 May, 1971,
Virginia. Rockingham-Greene
County line. Abundant in
mixed second-growth deciduous
forest along the Appalachian
Trail, top of the Blue Ridge,
ca 1 km. southwest of
Spotswood Gap and 10 km.
southeast of Elkton.
Elev. ca 800 m.

Plants abundant. Leaves
glaucous beneath. Flowers
ap. clear.

611104

Corydalis flavula (Raf.) DC.

Corydalis (3)

LC 978 - 19 May, 1974.

Ontario Co., New York.

In second growth mixed
hemlock-hardwood and boreal
forest in thin soil on
flat-lying limestone, ca
4 km northwest of Sciota
and 35 km northwest of
Hatesburg. ~~El~~ Elev. ca 100 m.

Shrubs ca 2 m tall with
2-4 (5) flowers in an inflores-
cence. Petals white.

~~For~~ Three other spp.

(*A. laevis*, *A. canadensis*, *A. spicata*)
and some hybrids in the vicinity.

Quarry. Top tomentose

11125

Amelanchier bartramiana (Tausch)
Roemer

Amelanchier bartramiana

10979-20 May, 1974.

Clemon Co., New York.

Same place as 10978.

Arborescent, crooked-trunked
shrubs to 6 m. tall and 1 dm. thick.
Leaves with a prominent
coppery-red cast. Flowers 5-10
in loosely erect racemes. Petals
white. Ovary top glabrous.

Three other spp. (*A. bartramiana*,
A. canadensis, *A. speciosa*)
and some hybrids in the vicinity.

Amelanchier laevis Wieg.

Amelanchier laevis (S)

10980 - 20 May, 1974.

~~Amelanchier~~ Clinton Co., NY.

11125
Same place as 10978

Shrubs 3-4 m. tall. Flowers
4-8 in loosely erect racemes,
with the raceme continuing
in the direction of the axis of
the twig. Petals white. Ovary
2-lobed and slender.

Three other spp. (*A. latifolia*,
A. laevis, *A. spicata*)
and some hybrids in the vicinity.

11127

Amelanchier canadensis (L.) Medic.

✓

Amelanchier canadensis (?)

10981 = 20 May, 1974

Clinton Co., NY.

Same place as 10978 11125

Shrubs 1.5-2 m tall. Flowers
(4) 5-10 in loosely erect
spreading or divaricating
racemes, the axis of the
raceme appearing coarse, but
actually soft and weak.
Petals white. Ovary tomentose
on the seemin.

11128

Amelanchier spicata (Lam.) K. Koch

Amelanchier spicata (3)

10982-24 ~~Altus~~ 17500.

Chihuahuan Desert. July 1951

Shrub on a quartzite
sandy, grassy ridge with
scattered mesquite. ca 12-135'
km. north of Chihuahua and
22 km. south of El Surco
Alt. ca 1000 m.

Stems ~~small~~ semi-woody
arborescent arising from
anthers together from a
deep seated common strobiliferous
node ca 1 dm. thick. Flowers
unisexual, small, from strobili.
Petals 5, light pink. Stamens
3, the outer ones shorter than
the inner. Anthers tripartite
with separate filaments.

11121

Jatropha macrohyza Benth.

Guadalupe ?

10983-30 June, 1974. Mexico. Mexico
In moist woods on south slope
of volcanic ridge south of
Mexico City, ca 20 km. west
west of Cuautla. Elev. ca 1300
m.

Stems 1-several branched, short,
stout, coarsely fibrous.
Caudex like rhizome. Leaves ob-
ovate, not glaucous. Heads
yellow. ~~Leaves~~ Involucres
bracts ca. 13. Rays mostly 8,
ca 2.5-3.5 cm long.

87.85

10

~~Stevia lucida~~

Stevia lucida Lag. ^{calycina} ~~calycina~~

Stevia lucida Lag. 32

Stevia lucida Lag. de Jean,
in an. de bot. de France,
vol. 10, p. 200, 1862.

Stevia lucida Lag. de Jean,
in an. de bot. de France,

Stevia lucida Lag. de Jean,
in an. de bot. de France,
vol. 10, p. 200, 1862.
subject to grazing. Flowers
petals.

Stevia lucida Lag.
(KD 75)

Stevia lucida

10905 July 1974 Oaxaca,
Mexico. Same place as 10904.
~~Shrub~~ Shrub 1.5-2 m. tall, seen
only on the highway cliff and,
where not subject to grazing.
Heads yellow. Rays 5.

11134

Coreopsis mutica DC.

EB '75

✓

Bidens mutica (4)

10756 1 (2) 6. 1975
Oaxaca, Mexico
Semi-volcanic slopes in
semi desert shrubby vegetation
~~mainly~~ about 32 km south of
Ap. Huajapam de Leon, near the
2nd largest village, Pan-American
highway. Shrub, freely branching
branches densely matted.
Leaves yellow, with mostly 8
rays. Elev. ca. 2500 m.

11133

Perymenium menderzii DC. var. menderzii
(KB 75) ✓

Asplenium sp.

10987-2 July, 1974,

Oaxaca Mexico. In open deciduous
subtropical forest, ~~near~~
verging to thorn scrub,
ca 70 km southeast of
Oaxaca and 10 km northwest
of Totolapan.

Elev. ca 1200 m.

Slender, many-stemmed
soft shrub 2.5-3 m. tall.
Heads yellow, with ca (8) 13
rays.

11144

Perymenium mendezi DC. var. *verbesinoides*
(DC.) Fay >> var. *mendezi*

FB 25
raying forward

8446.1

Perymenium (8)

July 2, 1970
site, a small, open, sandy area
subtropical lowland forest
about 70 cm high
north of
the river

Fl. ca 1200 m.
Plants annual. F.
annuals

11145

Florestina latifolia (DC.) Robinson
(KB 75)

aff. latifolia

~~1949~~ 18 April 1970

Oaxaca, Mexico. In open pine oak
woodland in limestone region.
Approx. 1000 m. elevation.
Highway 107, between
Tehuacan and Tlaxiaco,
southeast of Oaxaca.

Elevation ca 1200 m.

Plants sub-shrubby and
very short (1 m).
In small clumps.

Association: Raynoldsia,
mostly 5: disk white.

11/1/6

Bidens pilosa L.

Bidens (5)

~~1000~~ 10 July 1961
Pinalo, Arizona

In apt. thorn scrub
1.5 km ~~4034K~~
10 km ~~4034K~~ of Tucson.
10

1600 m.
2' - 8' tall many stems
Shrubs 1.5-2.5 m. tall. In
open (6) 8 (10) m.
Acacia in background.

111-11

Percyella mendocina DC. var. *angustifolia*
(Br. & G.) Fay
1000

Percyella

~~10991~~ 5 July, 1944
Mexico. In moist,
litter under trees
ca 32 km north of
Talasco and 64 km from
Zitacuaro.
Elev. ca. 2400 m.

Bract. green. Style
distal. bright
orange-red. In light
green and bright red
margins.

32 km
Castroville (3)

~~1900~~ 6 July 1900

Alameda Co. California

Elev. ca. 1700

near the top of the mountain

rays pistillate

and apparently fertile. Receptacles

diverging among

above and below that is about

the same as the leaves

interrupting a

short, thick, woody stem.

11111

Lasianthaea ceanothifolia

(Willd.) K. Becker

var. *ceanothifolia*

✓

~~1044~~ 6 July 1944

Distance 1000 m

pine-ash forest 13 m
west of Petcuaro Mich.
Mexico

Elev. ca 2000 m

Fls. yellow

8 best dried specimens

Ray ~~10-15~~ 14-16

in fruit 15-20

Dich. 1/2 in. Younging with

#10974

11150

Astranthium condimentum De Jong

KO 75

117

Acid 10

~~11151~~ 6 feet
in height
plant 2995.
White slender stems
prostrate, Ray. 5 to
6 inch, very narrow
(ca. 250).
Distinguished # 10993

11151

Erigeron affinis DC.

K. 100

11151 ~~7~~ 9

10995

Mexico. In the scrub

overlooking the south

Lake Chapala ca ~~180~~ 80 m.

low, very south-western

Guadalupe. Elev. ca 1500

Slender, branching, much branched

to (1) 1.5 m. Rays (5) 6-8,

petioles and fertile. Pappus of

several coarse bristles the

marginal ones the longest, on

a ~~small~~ somewhat flattened

invol at the base of the

achene, plus one or two

margin. bristles on the

margin of the margins

of the achene.

and 7-8. San Luis

Soyatlán

11/15

Perymenium menderii DC. var. verbesinoides

(DC.) Fay >> var. menderii

Perymenium 10

10996 + 10997
same place as 1099

Sparsely branched, sparse
ca 2 in tall. Stems
Herbaceous.

8 rays. Rays pistillate
sterile. Stems

interstitially branched
Herbaceous.

53

Wedelia acapulcensis HBK.
det. K. Becker

Viguiera (?)

10997 - 8 June 1976.

Jalisco Mexico. In oak-juniper
woodland along the road from
Guadalupe to Zacatecas, ca 30-40
km. north of Guadalupe.

Stems ~~erect and branched~~
(or sometimes solitary) from a
caudex, filiform, sometimes
heads yellow, rays white
often irregularly spread.

A few compound leaves
margined or submargined
the margins prolonged into a
firm tooth on one side at times
sparsely serrate. Leaves
spicuously sparsely hairy.

Verbesina parviflora (HBK.) Blake
10997

(11) ✓

~~10999~~ 9 July. 1911. Durango,
Mexico. Same place as 10998.
~~Shrub~~ ~~Shrub~~ ~~Shrub~~ ~~Shrub~~
see 10998 for details.
Hemlock forest.

Pappi of several fragments.
The fragments are all from
the same.

11157

Perymenium mendezii DC. var. mendezii

1175 10124.7
Perymenium 7 ✓

Sept 9 July, 1974.

In pine woods on Chyolite
edge, ca.

12-1 west of Durango
and 19 mi. northeast of
La Ciudad.

Sept 13,

Senecio tolorcanus DC.

12

1902-3 July 1902

~~Sierra Madre~~, Mexico

Steep, rocky slopes of
volcanic cal. pine
forest region on the west
slope of the Sierra Madre
Occidental, near
Revolcadero (188 km post
on Durango-Mazatlan
highway) and on the
road east-northeast of
Mazatlan.

Shrub 2000 m. tall, sometimes
down to 300 m. and
lanceolate leaves
yellow with a small
spot at the base.

Viguiera latibractea (Hemsl.) Blake
No. 75

Viguiera (11)

14002 ~~14002~~ ~~14002~~ Co.,
Calif.

In rather fine sand, - hypoleucis
talus near timberline (Pinus
flexilis) - talus head of
Siskiyou Mts. near timberline
Mts. Elev. ca. 3000 m.

Plants forming loose, open
mats in the gravelly talus.
Corolla 4-lobed, dirty
achrocinaceous.

11/10

Galium multiflorum Kell., sens. lat.
(*G. hypotrichum* A. Gray)

Galium multiflorum (6)

~~1100~~ 13 July 1974.

Sam. 100
Flowers purple

Arabis platysperma A. Gray

✓
✓

Perry's D

1116 2- 11 August, 1974

Putnam Co., New York

Clearings in second-growth
mixed hemlock-hardwood and
northern-coniferous forest,
on a limestone substrate,
ca. 4 km. northwest of Saeta
and 35 km. northwest of
Plattsburg. Elev. ca. 100 m.
Stem solitary brownish
rhizome. Heads yellow

Hieracium scabrum Michx.



Hieracium scabrum (

11163. 11 August, 1974

Clinton Co., New York.

Openings and soil areas near
in a sand gravel. Under
hemlock, hardwood and northern
coniferous forest. 4.5 km,
northwest of Lewis and 35 km
northwest of Keattsburg.

Elev. ca. 100 m.

On a limestone substrate

Stems solitary. Lip with a
broad, ill-defined central
yellow stripe, the flaments
otherwise white. Capsules
1 or 2.

Spiranthes gracilis (Pursh) Beck.

Spiranthes gracilis (Pursh) Beck.

11164 - 1) August, 1974
Clinton Co., New York. Around
the edge of a pond-swamp in
second growth, wooded.
hemlock-hardwood forest
northern coniferous forest,
on a limestone substrate.
ca 4 km. north-west Sciota
and 35 km. northwest of
Plattsburgh, N.Y. ca. 100 m.
Shrubs 1.5-3 m. tall. Leaves
pinnately compound. Fruit red with
a slight purplish cast; juice
not unpalatable, with
mostly 4 stones.

Prunella virginiana (L.) Trelk.

Prunella mucronata

11165 11 August, 1974.

Clinton Co., New York.

Edge of swamp in second
growth mixed hemlock-hard-
wood and northern coniferous
forest, on limestone substrate
ca 4 km. northwest of
Sciota and 35 km. northwest
of Plattsburg. Elev. ca. 100 m.
Shrub 5-15 dm. tall. Leaves
somewhat pale beneath.
Flowers white or faintly
pinkish.

Spiraea latifolia (Ait.) Borkh.

Spiraea (2)

67820 - W.P.

68197 - Woodstock-s. Edinburg

68335 - Monterey, Va.

68381.2 Cass

68475. - WS Sp55

68631.6 - Harrisonburg

69067.7 W.P.

11166 - 11 August, 1974. Clinton Co.,
N.Y. In open second-growth
mixed hemlock-hardwood and
northern coniferous forest, on a
limestone substrate, ca 4 km.
northwest of Sciota and 35 km.
northwest of Plattsburg. Elev.
ca 100 m. Heads yellow.

Hieracium canadense Michx.
var. *canadense*.

Hieracium c.

(3)

Tolls-

Henry Hudson 50-

Return

Pa. Pike 2.65

N. J. Pike 1.65

Bridge 1.00

H. Hudson - 50-

MADE IN JAPAN